

Driving Progress through Partnerships

2018 Annual HIFLD Feedback Session |

USGS Reston, VA | November 1, 2018



HIFLD Data Update

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Discussion Points

1. Data Updates: New; Enhanced; Updated

1.1. Federal Partner Data – Tom Springsteen/ HST

1.2. Commodity/ Commercial Data

1.3. Supplemental Data; NGA & National Laboratories

2. Data Access

2.1. Data Use Agreement (DUA)

2.2. Licensed Data; Access and Use

3. HIFLD Community Input & Feedback

Tom Springsteen

HIFLD Support Team (HST)

1. Data Updates: New; Enhanced; Updated

1.1. Federal Partner Data; Mr. Tom Springsteen

- Enhanced Data
- Data Partnerships
- Orphaned Data Layers/ Stewards Needed

1.2. Commodity/ Commercial Data

1.3. Supplemental Data; NGA & National Laboratories

Enhanced Data

Initial Quality Control Assessments have been performed on all data.

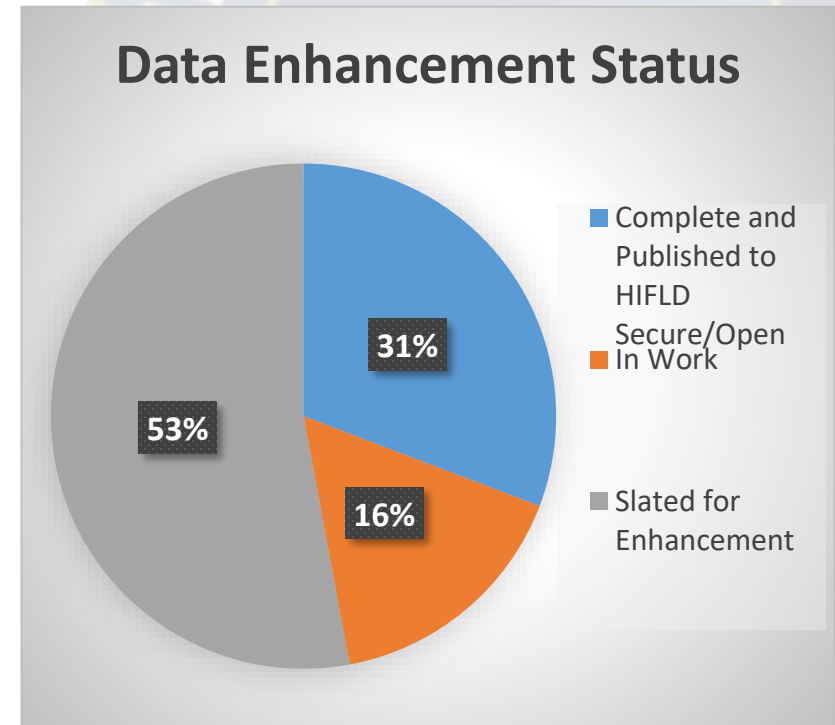
*Enhancement has progresses to include layers with REST services

Enhancement includes: attribute standardization, addressing blank attribution, completing metadata, updating geolocation

❖ Enhancements to 121 datasets are completed and have been published

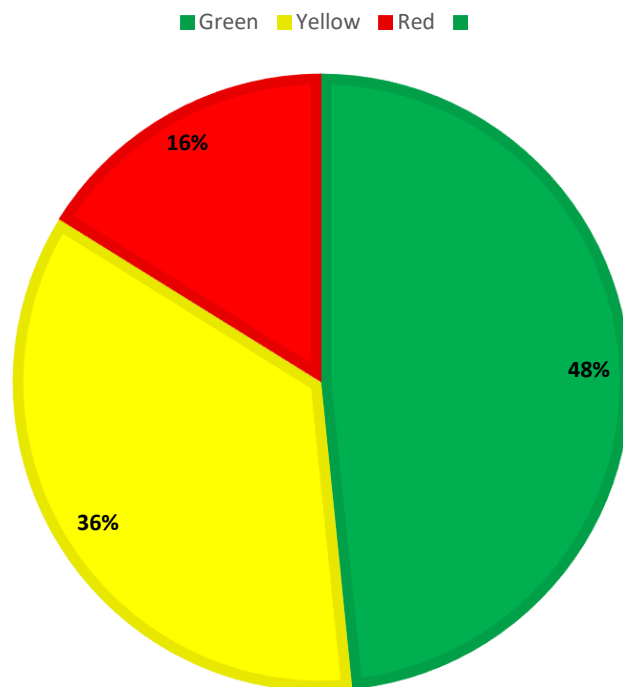
❖ 64 Layers are in progress and actively being worked by the enhancement team.

❖ There are 208 additional layers slated for enhancement

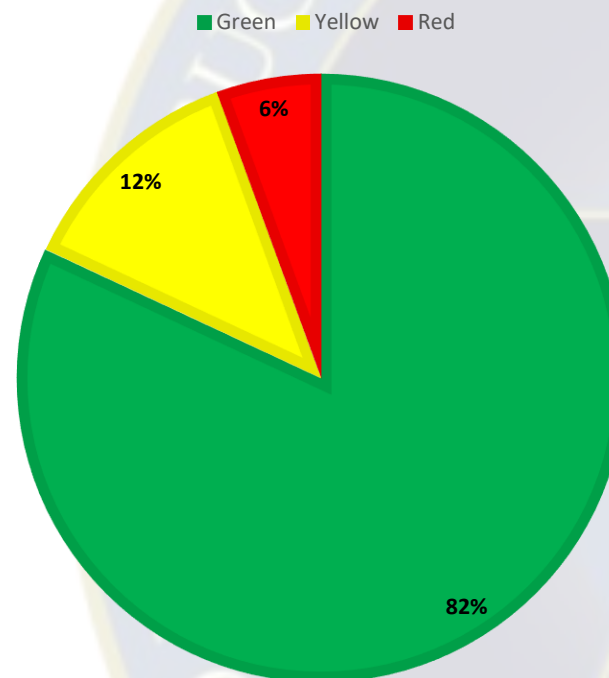


Outreach Progress

OCTOBER 2017 DATA PROVIDER STATUS



CURRENT DATA PROVIDER STATUS



- POC has confirmed responsibility for data layer(s) and is responsive to outreach
- POC has been responsive in the past, but no recent contact, or is in the process of finding other POCs
- No response from current POC, or the person listed is no longer the appropriate POC

Data Partnerships

HIFLD has coordinated communications between Data Providers, examples include:

- USGS National Map Corps (NMC):
 - K-12 Schools – Oak Ridge National Laboratory (ORNL)
 - Fire Stations – International Association of Fire Chiefs (IAFC)
 - Post Offices – US Postal Service (USPS)
- USGS Mineral Resources Team and DOL Mine Safety and Health Administration (MSHA):
 - Mines and Mineral Resources
- Protected Areas Database – US (PAD-US) and Veterans Affairs (VA):
 - Cemeteries

Orphaned Data Layers – We Need Stewards

Orphaned Data Layers Need Stewards:

- Aeronautical Navigational Aids (NAVAID) Facilities
- All Places of Worship
- Anchor and Mooring Locations
- Area Code Boundaries
- Breakwater Lines
- Breakwater Locations
- Channels
- Cruise Line Terminals
- DHL Facilities
- FedEx Facilities
- Fortune 500 Corporate Headquarters
- General Manufacturing Facilities
- Gold Bullion Repositories
- Government Financial Processing Centers
- Governors Mansions
- Information Technology (IT) Location Portals
- Internet Exchange Points
- Internet Service Providers
- Nuclear Fuel Plants
- Nuclear Research Facilities
- Private Non-Retail Shipping Facilities
- Propane Retailer Locations
- Truck Driving Schools
- UPS Facilities

Jimmy Nerantzis
HSIP Program Manager, NGA

1. Data Updates: New; Enhanced; Updated

1.1. Federal Partner Data

1.2. Commodity/ Commercial Data

- Transportation Data
- Parcel Data
- Business Points

1.3. Supplemental Data; NGA & National Laboratories

1. Data Updates: New; Enhanced; Updated

1.2. Commodity/ Commercial Data

1.2.1. Transportation Data: HERE

- Updated data coming early 2019 (estimated)
- License agreement: Expanded access
- Download and Use for **all federal, state, local, territorial, tribal agencies and supporting contractors**
 - Data currently being reviewed
 - A modified user experience to include:
 - a) Coded domains translated to text;
Better functionality through domain definitions on the delivered geodatabase;
 - b) Relationship classes built on tables that extend the core attribution;
 - c) Complete addresses available with single click
 - d) Most current data; Q3/Q4 2018

1.2.1. Transportation Data: HERE

- a) Coded domains translated to text;
Better functionality through domain definitions on the delivered geodatabase

The screenshot displays the ArcGIS Desktop interface with three main windows open over a map background. The map shows a street grid with labels such as 'Lanphier', 'Dollar General', 'Ritz's Lil Fryer', 'Wanless School', and 'Cincinnati Ave'. The 'Layer Properties' window is open, showing the 'Definition Query' tab. The 'Query Builder' window is also open, showing a list of values for the 'CAT_ID' field, including '5540 - Petrol/Gasoline Station', '5571 - Motorcycle Dealership', '5800 - Restaurant', '5999 - Historical Monument', and '6000 - Bank', which are circled in red. The 'Database Properties' window is highlighted with a red border and shows the 'Domains' tab. It contains a table of domain names and descriptions, and a section for 'Coded Values'.

Database Properties - Domains

Domain Name	Description
CAT_ID	
Census_CENSUS_TYPE	
CityPOI_NAMED_PLACE_TY	
CLAIMED_BY	
ComplexFeature_COMPLEX	
Condition_CONDITION_LEV	
Condition_CONDITION_TYP	
ConditionAccess_OPENING	

Domain Properties:

Field Type	Text
Domain Type	Coded Values
Split policy	Default Value
Merge policy	Default Value

Coded Values:

Code	Description
2084	Winery
3578	ATM
4013	Train Station
4100	Commuter Rail Station
4170	Bus Station

Query Builder

OBJECTID
POI_ID
CAT_ID
ISO_COUNTRY_CODE
LANGUAGE_CODE

5540 - Petrol/Gasoline Station
5571 - Motorcycle Dealership
5800 - Restaurant
5999 - Historical Monument
6000 - Bank

SELECT * FROM POI WHERE:
CAT_ID =

Clear Verify Help Load... Save... OK Cancel

b) Relationship classes built on tables that extend the core attribution;

The screenshot displays a GIS application interface. The background is a map of Chicago with several points of interest (POIs) labeled in blue text: 'Lanphier Ball Park', 'Dairy Queen', 'Mobil', 'Rusty Auto Service', 'Dollar General', and 'Ritz's Lil Fryer'. A 'Contents' panel on the left lists various data layers, including 'POIContact2POI', 'POICuisines2POI', 'POINames2POI', 'PointAdd2StreetAdd', 'PointAddTrans2PointAdd', 'RightAdmin2Link', 'Signposts_Streets2Signposts', 'StreetAddress2Link', 'StreetNameTrans2StreetAdd', 'Streets2NavStrand', 'ZLvCrossLower2Link', 'ZLvCrossUpper2Link', 'ZoneNames2Zone', 'Admin', 'AdminAttribute', 'AdminDST', 'AdminNames', 'AdminZoneNameTrans', 'Census', 'Chain', 'CityPOINames', 'ComplexFeature', 'ComplexFeatureComponent', 'ComplexFeatureNames', 'ComplexFeatureNameTrans', and 'Condition'. An 'Identify' window on the right shows the 'Altamira_POI' layer selected. It displays details for a specific POI: OBJECTID 3997110, POI_ID 1194384782, SEQ_NUM 1, CONTACT_TYPE URL OR WEB ADDRESS, and CONTACT https://www.exxon.com. The text 'Identified 1 feature' is visible at the bottom of the window.

1. Data Updates: New; Enhanced; Updated

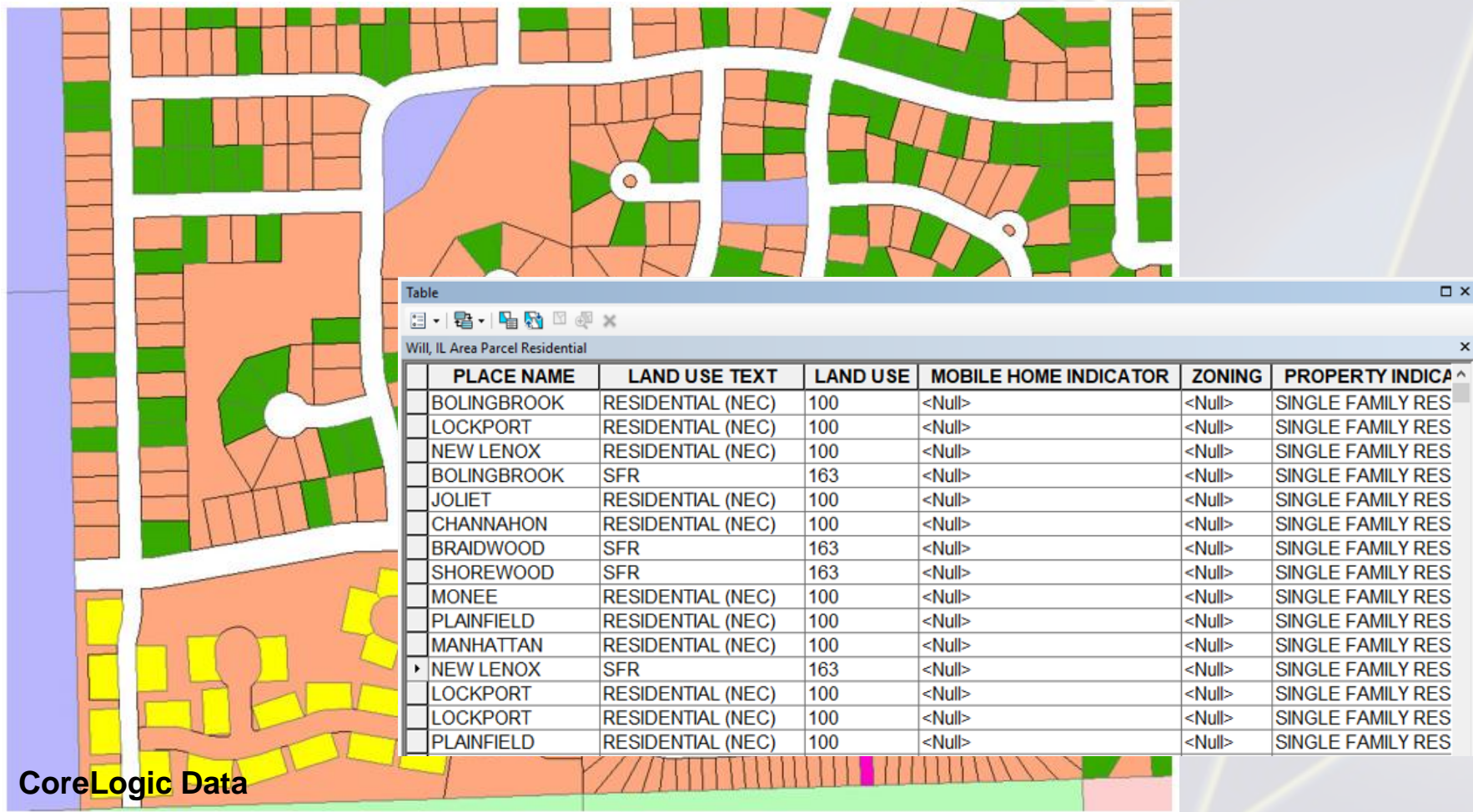
1.2. Commodity/ Commercial Data

1.2.2. Parcel Data: CoreLogic

- Update posted on HIFLD Secure, Sep. 2018
 - Current as of 15 May 2018
- Additional update coming Jan. 2019 (est.)
- Currently being reviewed
 - Current as of 15 Aug. 2018

1. Data Updates: New; Enhanced; Updated

1.2.2. Parcel Data: CoreLogic



1. Data Updates: New; Enhanced; Updated

1.2. Commodity/ Commercial Data (continued)

1.2.3. Business Points

- No update since 2016;
 - We attempted to acquire Business Points data thru an RFP in FY18, but were unsuccessful due to funding limitations.
- NGA plans to pursue RFP for Business Points FY19

1. Data Updates: New; Enhanced; Updated

1.3. Supplemental Data; NGA & National Laboratories

NGA collaboration with Oak Ridge Nat'l Lab. (ORNL)

- Argonne National Lab.(ANL)
- Idaho National Lab. (INL)
- Los Alamos National Lab.(LANL)

1. Data Updates: New; Enhanced; Updated

1.3. Supplemental Data; NGA, ORNL, ANL, INL, LANL

		Current to: -not posted date	Next updates scheduled
1	Child Care Centers; (formerly called Day Care)	3-Jul-18	fall 2019
2	College Polygon	summer 2019 -- NEW	...
3	Colleges and Universities	15-Apr-18	summer 2019
4	Convention Centers	fall 2019 -- NEW	...
5	Hospitals (with related table Trauma_Levels)	30-May-18	summer 2019

1. Data Updates: New; Enhanced; Updated

1.3. NGA & Nat'l Lab. - Supplemental Data

		Current to: -not posted date	Next updates scheduled
6	Law Enforcement - state and local	fall 2019 -- NEW	...
7	Major Sport Venues (with related table Usage)	5-Jul-16	summer 2019
8	Mobile Home Parks	29-Jun-18	no 2019 update
9	National Shelters	11-Oct-17	no 2019 update
10	Nursing Homes	14-Jun-18	summer 2019
11	Prisons	28-Jun-18	no 2019 update
12	Private Schools	10-May-18	no 2019 update
13	Public Schools	14-Mar-18	summer 2019

1. Data Updates: New; Enhanced; Updated

1.3. NGA & Nat'l Lab. - Supplemental Data

		Current to: -not posted date	Next updates scheduled
14	Public Transit Routes (with related table, Routes_Stations)	24-Aug-16	no 2019 update
15	Public Transit Stations (with related tables; Routes_Stations and Station_Transfers)	24-Aug-16	no 2019 update
16	Solid Waste	29-Jun-18	no 2019 update
17	Supplemental Colleges	15-Apr-18	summer 2019

2. Data Access

2.1. Data Use Agreement (DUA)

- Streamlined/ simplified process
- Web based

2.2. Licensed Data; Access and Use

2. Data Access

2.1. Data Use Agreement (DUA)

- Streamlined/ simplified process
- Web based

The new DUA includes the following improvements:

- Allows full utilization of data licenses
- Clearly defines who a “Mission Partner” is
- Removed unnecessary language
- Provides additional guidance for Scope of Use
- Includes links to supplemental information (e.g. license language, User Matrix)
- Provides information on how to cite HIFLD Data
- Provides guidance for derived products

2. Data Access

2.2. Current Licensed Data; Access and Use

HLS Mission Partner Affiliation	Parcel Data/ CoreLogic	Roads & Routing/ HERE	Business Points; Dun & Bradstreet
Federal	Yes	Yes	Yes
State*	Yes	Yes	Yes
Local/Tribal	Yes	View Only POI	No

*State—License allows use of the data by the following five state government agencies and any others designated by DHS that fulfill similar mission functions.

- State Fusion Centers
- State Emergency Operations Centers (EOCs)
- State GIS Coordinators
- State National Guard Joint Operations Centers
- State Emergency Management Coordinators

Caveat: Licensed Data is releasable to all Mission Partner Affiliates under Presidential Disaster Declarations (PDD). Without a PDD, the above licensing restrictions apply.

2. Data Access

2.2. Licensed Data; Access and Use ‘Constraints’;

- Common questions:

1. I’m making a PDF map product. Can I share this? With whom?
Do they need a signed DUA?

Answer: Generally, derived products can only be shared with those who have permission to receive the data that was used to create the product. This applies to Open, FOUO, and Licensed data; (The DUA specifically states this for licensed data).

Current licenses state that derived products can be shared with “Mission Partners.” Mission Partners include any Federal, State, or Local government users with a HLS/HD mission who have a license to use the data.

If a derived product created with licensed data is shared with a Mission Partner who does not have a signed DUA, then the derived product must be such that it cannot be reverse engineered to re-create the original source data.

2. Data Access

2.2. Licensed Data; Access and Use ‘Constraints’;

- Common questions:

2. I’m making a geoPDF. Can I share this? With whom? Do they need a signed DUA?

Answer: A geoPDF can be shared according to criteria expressed in answer to Question 1. If sharing with someone who does not have a DUA, the derived product must be such that it cannot be reverse engineered to re-create the original source data AND, the geoPDF can only be shared as long as Object Data (attribute data) is NOT included in any part of the product.

2. Data Access

2.2. Licensed Data; Access and Use 'Constraints';

- Common questions:

3. I'm a fed and I want to ingest HIFLD Secure & Licensed services into my application. Can I do this? Who can get access? Must everyone have a signed DUA?

Answer: HIFLD Secure & Licensed services can be ingested into your application. Access to the HIFLD services is limited to the office/agency personnel that the signer of the DUA represents. The services cannot be re-hosted to partners outside of the applicant's office/agency.

2. Data Access

2.2. Licensed Data; Access and Use ‘Constraints’;

- Common questions:

4. I work for an accredited university system which directly supports federal contracts. Can I get access to the licensed data sets?

Answer: Yes, if the university is a contractor for the government and supporting a HLS/HD mission. If the university is a “private organization partner*,” they are not able to access the licensed data.

*Private Organization Partners are defined as: Private sector organizations or people who cooperate with any government agency on Homeland Security/Homeland Defense/National Preparedness but don’t have a contract with government.

3. HIFLD Community Input & Feedback

- We want your input & feedback!
- Available means;
 - HIFLD Email; hifld@hq.dhs.gov
 - HIFLD Survey
 - HIFLD Outreach Events – In-Person & Webinar
 - HIFLD Feedback Session
Or, [HIFLD Homepage](#)> Feedback
 - FGDC HIFLD Subcommittee Meetings
 - HIFLD Data Provider Discussions
 - HIFLD OPEN/SECURE Site Metrics

3. HIFLD Community Input & Feedback

HIFLD Use Case Refresh

- Have compiled ~70 updated HIFLD data “use cases” based on outreach to the community
- HIFLD Use Cases can be found at:
 - <https://gii.dhs.gov/hifld/news-and-events>
- We still welcome additional use cases from Federal, State, local, public partners as available;
 - email HIFLD at hifld@hq.dhs.gov

Thank you.



HIFLD Use Cases – 2018

The Federal Geographic Data Committee (FGDC) Homeland Infrastructure Foundation-Level Data (HIFLD) Subcommittee is responsible for developing, promoting, and executing a coordinated strategy for acquisition and/or enhancement of homeland infrastructure geospatial information for Federal agencies while creating and utilizing partnerships with State, local, tribal, territorial, and non-governmental organizations (NGOs).

HIFLD depends on an engaged community of users and providers from across the Federal, state, local, and NGO continuum to develop and promote a coordinated strategy to address the collecting, processing, and sharing of the HIFLD Open and HIFLD Secure content (formerly HSIP Freedom and HSIP Gold), an aggregation of 550+ layers of foundation infrastructure data from best available data sources. HIFLD Open and Secure datasets have become the most useful, usable, and used foundation infrastructure datasets for hundreds of thousands of supported users.

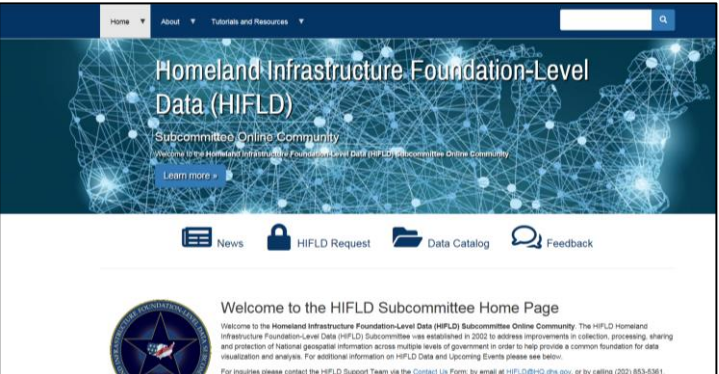
HIFLD is currently the base map data for multiple government supported geospatial viewers, applications, analytic tools, and other visualization capabilities. The HIFLD partnership model has fostered additional requests to support a more regional focus on State and local priorities, and on issues to strengthen Federal, state, local, and NGO partnerships across the Homeland Defense (HD), Homeland Security (HS), National Preparedness – Prevention, Protection, Mitigation, Response and Recovery (NP-PPMR&R) mission communities.

The following document provides real-world examples – “use cases” – of how HIFLD Open and Secure datasets are being used to support Federal/state/local officials across the NP-PPMR&R mission communities. Although not exhaustive, these examples represent HIFLD’s significant impact to a wide range of uses and essential missions. The use cases were provided in the Spring of 2018 from outreach to the HIFLD data provider and user community through targeted, direct contact and other HIFLD communication methods.

More Resources and Information:

- Additional information on the HIFLD Subcommittee
<https://www.fgdc.gov/organization/working-groups-subcommittees/hifld/index.html>
- Additional information on and access to the HIFLD Open Data
<https://hifld-geoplatform.opendata.arcgis.com/>
- For other questions or information on HIFLD Open or Secure Datasets, send an email to HIFLD@hq.dhs.gov

UNCLASSIFIED



Home Infrastructure Foundation-Level Data (HIFLD) Subcommittee Online Community

Welcome to the Homeland Infrastructure Foundation-Level Data (HIFLD) Subcommittee Online Community. The HIFLD Homeland Infrastructure Foundation-Level Data (HIFLD) Subcommittee was established in 2002 to address improvements in collection, processing, sharing and protection of national geospatial information across multiple levels of government in order to help provide a common foundation for data visualization and analysis. For additional information on HIFLD Data and Upcoming Events please see below.

For inquiries please contact the HIFLD Support Team via the Contact Us Form, by email at HIFLD@hq.dhs.gov, or by calling (202) 853-6361.

News HIFLD Request Data Catalog Feedback

Welcome to the HIFLD Subcommittee Home Page